

# INTERNATIONAL SEARCH REPORT

I    
 PCT/GB2004/005402

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 B21D37/02 B25B11/00 B25B1/24

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 B21D B25B B23Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 02/064308 A (PERA INTERNATIONAL; HALFORD, BEN, JOHN) 22 August 2002 (2002-08-22) cited in the application the whole document -----	1,3-7, 11-13, 16-19
X	EP 0 857 544 A (MATRIX GMBH; MATRIX GMBH, SPANNSYSTEME UND PRODUKTIONSAUTOMATISIERUNG) 12 August 1998 (1998-08-12) the whole document -----	1
E	EP 1 508 404 A (ROLLS-ROYCE PLC) 23 February 2005 (2005-02-23) the whole document -----	1
X	US 5 407 185 A (ZEHNPFENNIG ET AL) 18 April 1995 (1995-04-18) the whole document -----	1

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

\* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

9 March 2005

Date of mailing of the international search report

20.06.2005

Name and mailing address of the ISA

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Lasa, A

# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/GB2004/005402

## Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1.  Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
  
2.  Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
  
3.  Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple Inventions in this international application, as follows:

see additional sheet

1.  As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
  
2.  As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
  
3.  As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
  
4.  No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the Invention first mentioned in the claims; it is covered by claims Nos.:

1+(2-13, 16-19)

Remark on Protest

The additional search fees were accompanied by the applicant's protest.

No protest accompanied the payment of additional search fees.

**FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210**

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1+(2-13,16-19)

Tooling system according to claim 1 with special configurations of the bolster means,  
Problem solved: provide means for selectively clamping some of the elements of the array.

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2. claim: 1+14

Tooling system according to claim 1 with vibrating mean for the bolster means.  
Problem solved: assist in bedding down the elements of the array.

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3. claim: 1+15

Tooling system according to claim 1 with movement or force sensors for the elements of the array.  
Problem solved: provide means for controlling the axial position of the elements.

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**INTERNATIONAL SEARCH REPORT**

International Application No  
PCT/GB2004/005402

Patent document cited in search report	Publication date		Patent family member(s)		Publication date
WO 02064308	A 22-08-2002	CA EP EP WO JP US	2453191 A1 1360030 A1 1537942 A1 02064308 A1 2004526580 T 2004145105 A1		22-08-2002 12-11-2003 08-06-2005 22-08-2002 02-09-2004 29-07-2004
EP 0857544	A 12-08-1998	DE DE EP US	19702848 C1 19802320 A1 0857544 A2 5988618 A		12-02-1998 05-08-1999 12-08-1998 23-11-1999
EP 1508404	A 23-02-2005	EP US	1508404 A2 2005082731 A1		23-02-2005 21-04-2005
US 5407185	A 18-04-1995		NONE		